

BODYBOARD

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a bodyboard, and more particularly to a bodyboard that can be used to surf on waves or ride on snow, is lightweight and an enhanced structure strengthened by multiple layers.

2. Description of Related Art

Bodysurfing is an exciting and popular sport for people who like adventurous and exciting activities. A bodyboard provides a greater degree of control when body surfing on waves. Conventional bodyboards are often composed of multiple layers held together with glue and made of lightweight material.

Because glue is applied to the top or bottom surface of each layer, the strength between adjacent layers is limited. The layers easily separate from each other after a term of using, such that the useful life of the conventional bodyboard is short.

To overcome the shortcomings, the present invention provides a bodyboard to mitigate or obviate the aforementioned problems.

SUMMARY OF THE INVENTION

The main objective of the invention is to provide a lightweight bodyboard an enhanced structure strengthened by layers of the bodyboard to prolong the useful life of the bodyboard. The bodyboard has a body and a protective strip. The body has a core, an upper layer and a lower layer. The core has a top, a bottom and multiple holes defined respectively in the top and the

1 bottom. The upper layer is securely attached to the top of the core with glue. The
2 lower layer is securely attached to the bottom of the core plate with glue. The
3 protective strip is mounted on the edge of the body along the front and two sides
4 of the body. With the holes in the core plate, the contact area of the core plate
5 with glue is enlarged, such that the combining strength between the core plate,
6 upper layer and the lower layer is enhanced.

7 Other objects, advantages and novel features of the invention will
8 become more apparent from the following detailed description when taken in
9 conjunction with the accompanying drawings.

10 BRIEF DESCRIPTION OF THE DRAWINGS

11 Fig. 1 is a perspective view of a bodyboard in accordance with the
12 present invention;

13 Fig. 2 is an exploded perspective view of the bodyboard in Fig. 1; and

14 Fig. 3 is a cross sectional side plan view of the bodyboard in Fig. 1.

15 DETAILED DESCRIPTION OF PREFERRED EMBODIMENT

16 With reference to Figs. 1 to 3, a bodyboard in accordance with the
17 present invention comprises a body (not numbered) and a protective strip (not
18 numbered). The body has an edge (not numbered) with a front (not numbered), a
19 rear (not numbered) and two sides (not numbered) and comprises a core (10), an
20 upper layer (12) and a lower layer (14). Each layer of the body is made of a
21 lightweight material the bodyboard will float on water. The core (10) has a shape,
22 a top (not numbered), a bottom (not numbered) and multiple holes (102) defined
23 in the top and the bottom. In a preferred embodiment, each hole (102) is a
24 through hole defined through the core (10) from the top to the bottom. The core

1 (10) can be made of a material selected from one of a group consisting of epoxy
2 resin, expandable polystyrene (EPS), expandable polypropylene (EPP) and
3 expandable polyethylene (EPE).

4 The upper layer (12) is securely attached to the top of the core plate (10)
5 with glue and has a shape substantially the same as that of the core (10). The
6 upper layer (12) can be made of a foaming material selected from one of a group
7 consisting of crosslinked polyethylene, ethylene-vinyl acetate copolymer foam
8 (EVA foam), polypropylene foam (PP foam) and polyethylene foam (PE foam).

9 The lower layer (14) is securely attached to the bottom of the core plate
10 (10) with glue and has a shape substantially the same as that of the core (10). The
11 lower layer (14) can be made of a material selected from one of a group
12 consisting of polypropylene (PP) and polyethylene (PE).

13 The protective strip is mounted on the edge of the body along the front
14 and two sides. The protective strip is securely attached to the edge of the body
15 with glue. In a preferred embodiment, the protective strip is made of the same
16 material as the upper layer (12). In an optional embodiment, the protective strip
17 comprises two protective strip segments (16) mounted respectively on the sides
18 of the body and extending to and abutting at the front of the body. In an
19 alternative embodiment, the protective strip is a single protective strip.

20 In such an arrangement, the holes (102) in the core (10) enlarge the
21 contact area of and adhesive bond of the glue with the core (10), which
22 strengthens the bond between the core plate (10), the upper layer (12) and the
23 lower layer (14). Furthermore, the protective strip strengthens the layers of the
24 body by covering the exposed joint at the edges of the body and protecting the

1 exposed edges from bumps and wear. Therefore, the layers of the body will not
2 easily separate from each other, and the useful life of the bodyboard is prolonged.
3 Furthermore, the protective strip makes the appearance of the bodyboard
4 aesthetically pleasing.

5 Even though numerous characteristics and advantages of the present
6 invention have been set forth in the foregoing description, together with details
7 of the structure and function of the invention, the disclosure is illustrative only,
8 and changes may be made in detail, especially in matters of shape, size, and
9 arrangement of parts within the principles of the invention to the full extent
10 indicated by the broad general meaning of the terms in which the appended
11 claims are expressed.